MONTICELLO AND SIERRA FIJARDO DEPARTMENT OF THE INTERIOR QUADRANGLES, SOCORRO AND SIERRA UNITED STATES GEOLOGICAL SURVEY COUNTIES, N. MEX., BY W. R. GRIFFITTS, H. V. ALMINAS, AND EXPLANATION E. L. MOSIER SHEET 3 OF 3 Contact Surficial deposits Tir Normal fault Dashed where approximately located; Intrusive rhyolite dotted where covered Tqv Lingament Traced from serial photographs Quartz veins and plugs TERTIAR Younger rhyolite flows and ash-flow tuffs Motal contents of three sample types ( <80, M-1, NM-1) are given at each sample location. The <30 sample consists of material finer than 0.177 ma sieved from the total stream sediment. The other two sample types are portions of stream-sediment panned concentrates with a specific gravity Tla higher than that of bromofors. The M-1 fraction is that portion of such material not magnetic at 0.1 amore, but magnetic at a 1.0-amore setting Porphyritic latite and andesite flows, flow on a Frants Isodynamic Separator ( forward slope 25°, side slope 15°). breccias, tuffs, and agglomerates The portion that is not magnetic at a 1.0-ampere setting is labeled Mi-1. Paleozoic sedimentary rocks: undivided shale, sandstone, and limestone Stream-sediment sample Showing spectrographically determined lanthanum and silver contents in parts per million. Numbers without brackets give lanthanum values. Top number, lanthanum value of the <80 fraction; middle number, lanthanum value of the M-1 fraction; bottom number, lanthanum value of the NM-1 fraction. L, lanthanum detected but below 20 parts per million. N, lanthanum value below the detection limit. Dash, missing value. Numbers in brackets give silver values of the three fractions in the above mentioned sequence. L, silver detected but below 0.5 parts per million. N, silver value below detection limit. Brackets are found only near sample locations at which silver was detected spectrographically. Filled U.S. Geological Survey circle indicates sample location at which silver was detected in any one OPEN FILE REPORT of the three sample types This map is preliminary and has not been edited or reviewed for conformity -1000with Geological Survey standards. Isopleth Approximately delineating areas containing at least 1000 parts per million lanthanua in the M-1 fraction of stream sediments HISTOGRAMS SHOWING LANTHANUM DISTRIBUTION Younger rhyolite flows and ash-flow tuffs 40\_ 30\_ 20. Lanthanum, in parts per million of Rock samples 50\_ 50 50\_ 40. 40\_ 40\_ <30 NM-1 M-1 30 30\_ 30\_ 20 20. 20. 10 10 Lanthanum, in parts per million Lanthanum, in parts per million Lanthanum, in parts per million Stream-sediment samples 50 Porphyritic latite and andesite flows, flow breccies, tuffs, and agglomerates 40\_ 30 20. Lanthanum, in parts per million Percentage of Rock samples 50 50. 40 40\_ 40\_ M-1 NM-1 30\_ 30. 30. 20. 20\_ 20 10. 2 100008 Lanthanum, in parts per million Lanthanum, in parts per million Lanthanum, in parts per million Stream-sediment samples

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